

Listing of the Claims:

1 1. (Currently Amended) A fluid quick connector comprising:
2 an electrically conductive connector housing ~~configured to mate with~~
3 ~~male~~ an endform having a bore extending from one end; and
4 an electrically conductive contact member mounted in the housing and
5 ~~adapted for~~ contacting the ~~male~~ endform to electrically connect the ~~male~~ endform and
6 the quick connector housing, the contact member including:
7 a first portion ~~adapted to be mountable~~ mounted in [a] the quick
8 connector housing bore in contact with the quick connector housing; and
9 ~~at least one arm means,~~ extending from the first portion[,] ~~and~~
10 ~~adapted to extend~~ for passage through an open end of a bore in the ~~male~~
11 endform in into contact with an inner surface of the ~~male~~ endform.

Claims 2 and 3. (Cancelled)

1 4. (Currently Amended) The fluid quick connector of claim 1
2 further comprising:
3 the means is an arm having a bent end ~~extendable~~ extending into the
4 male endform.

1 5. (Currently Amended) The fluid quick connector of claim 4
2 wherein the arm and the bent end comprise:
3 a beam portion extending from the first portion of the contact member;
4 a back taper surface extending angularly from the beam portion; and
5 a tip end extending angularly from an edge at one end of the back taper
6 surface and defining a lead-in surface ~~adapted to be~~ engaged by a tip end of the
7 endform.

1 6. (Original) The fluid quick connector of claim 5 wherein:
2 the back taper surface extends at an obtuse included angle with respect
3 to the beam; and
4 the tip end extends at an obtuse included angle from the back taper
5 surface.

1 7. (Currently Amended) The fluid quick connector of claim 1
2 wherein the first portion comprises:
3 a tubular body ~~mountable~~ mounted in the bore in the quick connector
4 housing, the ~~arm~~ means extending from one end of the tubular body.

1 8. (Original) The fluid quick connector of claim 7 wherein:
2 the tubular body is longitudinally split to form spaced edges allowing
3 compression of the tubular body for press-fit mounting of the tubular body in the
4 bore in the quick connector housing.

1 9. (Original) The fluid quick connector of claim 7 wherein the
2 tubular body further comprises:
3 another end oppositely formed from the one end of the body, a lead-in
4 edge formed on the another end.

1 10. (Currently Amended) The fluid quick connector of claim 1
2 wherein the first portion of the contact member comprises:
3 an annular ring ~~mountable~~ mounted in the bore in the quick connector
4 housing, the arm extending from the annular ring.

1 11. (Currently Amended) The fluid quick connector of claim 10
2 further comprising:
3 the means is an arm having a bent end ~~extendable~~ extending through an
4 open end of a bore in the male endform.

1 12. (Previously presented) The fluid quick connector of claim 10
2 further comprising:

3 at least one locating member extending angularly from the annular ring
4 of the contact member, the at least one locating member engagable with an end of the
5 male endform to center the annular ring relative to the male endform.

1 13. (Original) The fluid quick connector of claim 10 wherein:
2 the annular ring is mountable in registry with a shoulder between two
3 stepped bore portions of the through bore in the quick connector housing.

Claim14. (Cancelled)

1 15. (Currently Amended) A fluid quick connector comprising:
2 a connector housing ~~adapted to mate with~~ ;
3 an electrically conductive ~~male~~ endform ~~along a first axis~~;
4 the quick connector housing and the endform formed of an electrically
5 conductive material; and

6 [a] an electrical contact member having a first portion fixedly
7 ~~mountable~~ mounted in a bore in the housing, and ~~an arm means~~ extending from the
8 first portion ~~adapted to extend~~ through an open end of a bore in the ~~male~~ endform to
9 dispose the arm in contact with a an inner surface of the ~~male~~ endform.

1 16. (Currently Amended) ~~An electrical contact for~~ In an electrically
2 conductive fluid quick connector having a connector housing ~~configured to mate~~
3 mated with an electrically conductive male endform, the ~~electrical contact~~
4 improvement comprising:

5 an electrically conductive contact member ~~adapted to mount~~ mounted
6 in a quick connector housing to electrically connect a ~~male~~ the endform inserted into
7 the housing to the quick connector housing, the contact member including:

8 a first portion ~~adapted to be mountable~~ mounted in the quick
9 connector housing bore in contact with the quick connector housing; and
10 ~~an arm~~ means extending from the first portion ~~adapted for~~ into
11 contact with the ~~male~~ endform inserted into the housing bore; ~~the arm adapted~~
12 ~~to be extendable~~ through an open end of the bore in the ~~male~~ endform into
13 contact with ~~a~~ an inner surface of the ~~male~~ endform.

Claims 17 and 18. (Cancelled)

1 19. (Currently Amended) The ~~electrical contact~~ improvement of
2 claim 16 further comprising:

3 the means is an arm having a bent end ~~adapted to be extendable~~
4 extending into the male endform.

1 20. (Currently amended) The ~~electrical contact~~ improvement of
2 claim 19 wherein the arm and the bent end comprise:

3 a beam portion extending from the first portion of the contact member;
4 a back taper surface extending angularly from the beam portion; and
5 a tip end extending angularly from an edge at one end of the back taper
6 surface and defining a lead-in surface ~~adapted to be~~ engaged by a tip end of the
7 endform.

1 21. (Currently Amended) The ~~electrical contact~~ improvement of
2 claim 20 wherein the arm and the bent end comprise:

3 the back taper surface extends at an obtuse included angle with respect
4 to the beam; and

5 the tip end extends at an obtuse included angle from the back taper
6 surface.

1 22. (Currently Amended) The ~~electrical contact~~ improvement of
2 claim 16 wherein the first portion of the contact member comprises:

3 a tubular body adapted to be mountable mounted in the bore in the
4 quick connector housing, the arm extending from one end of the tubular body.

1 23. (Currently Amended) The ~~electrical contact~~ improvement of
2 claim 22 wherein:

3 the tubular body is longitudinally split to form spaced edges allowing
4 compression of the tubular body for press-fit mounting of the tubular body in the bore
5 in the quick connector housing.

1 24. (Currently Amended) The ~~electrical contact~~ improvement of
2 claim 22 wherein the tubular body further comprises:

3 another end oppositely formed from the one end of the body, a lead-in
4 edge formed on the another end.

1 25. (Currently Amended) The ~~electrical contact~~ improvement of
2 claim 16 wherein the first portion of the contact member comprises:

3 an annular ring ~~adapted to be~~ mountable in the bore in the quick
4 connector housing, the arm extending from the annular ring.

1 26. (Currently Amended) The ~~electrical contact~~ improvement of
2 claim 25 further comprising:

3 the means is an arm having a bent end ~~adapted to extend~~ extending
4 through an open end of a bore in the male endform.

1 27. (Currently Amended) The ~~electrical contact~~ improvement of
2 claim 25 further comprising:

3 at least one finger extending angularly from the annular ring of the
4 contact member, the at least one finger ~~adapted to engage~~ engaging the housing bore.

1 28. (Currently Amended) The ~~electrical contact~~ improvement of
2 claim 25 wherein:
3 the annular ring is ~~adapted to be~~ mounted in registry with a shoulder
4 between two stepped bore portions of the through bore in the quick connector
5 housing.

 Claim 29. (Cancelled)

1 30. (New) The fluid quick connector of claim 15 further
2 comprising:
3 the means is an arm having a bent end extending into the male
4 endform.

1 31. (New) The fluid quick connector of claim 30 wherein the arm
2 and the bent end comprise:
3 a beam portion extending from the first portion of the contact member;
4 a back taper surface extending angularly from the beam portion; and
5 a tip end extending angularly from an edge at one end of the back taper
6 surface and defining a lead-in surface engaged by a tip end of the endform.

1 32. (New) The fluid quick connector of claim 31 wherein:
2 the back taper surface extends at an obtuse included angle with respect
3 to the beam; and
4 the tip end extends at an obtuse included angle from the back taper
5 surface.

1 33 (New) The fluid quick connector of claim 15 wherein the first
2 portion comprises:

3 a tubular body mounted in the bore in the quick connector housing, the
4 means extending from one end of the tubular body.

1 34. (New) The fluid quick connector of claim 33 wherein:
2 the tubular body is longitudinally split to form spaced edges allowing
3 compression of the tubular body for press-fit mounting of the tubular body in the bore
4 in the quick connector housing.

1 35. (New) The fluid quick connector of claim 33 wherein the
2 tubular body further comprises:
3 another end oppositely formed from the one end of the body, a lead-in
4 edge formed on the another end.

1 36. (New) The fluid quick connector of claim 15 wherein the first
2 portion of the contact member comprises:
3 an annular ring mounted in the bore in the quick connector housing, the
4 arm extending from the annular ring.

1 37. (New) The fluid quick connector of claim 36 further
2 comprising:
3 the means is an arm having a bent end extending through an open end
4 of a bore in the male endform.

1 38. (New) The fluid quick connector of claim 36 further
2 comprising:
3 at least one locating member extending angularly from the annular ring
4 of the contact member, the at least one locating member engagable with an end of the
5 male endform to center the annular ring relative to the male endform.